

In the Claims:

Claims 1-22 (Cancelled).

Claim 23 (Previously presented). A method of identifying a maize progeny plant having a restriction fragment introgressed from a *Tripsacum*/teosinte hybrid, said method comprising the following steps:

- (a) isolating the total genomic DNA from the plant;
- (b) digesting said genomic DNA with one to five of the restriction enzymes selected from the group consisting of *EcoRI*, *EcoRV*, *HindIII*, *BamHI* and *MspI*;
- (c) probing said digested genomic DNA with one or more probes, to identify one or more restriction fragments, selected from the group consisting of

BNL5.62, *EcoRI*, 10.3 kb; *npi97*, *HindIII*, 3.9 kb; UMC157, *EcoRI*, 6.5 kb and 3.3 kb; UMC157, *HindIII*, 5.5 kb; UMC157, *BamHI*, 14.0 kb, 8.5 kb and 4.5 kb; UMC11, *BamHI*, 7.0 kb; CSU3, *BamHI*, 10.0 kb and 7.6 kb; UMC67, *EcoRI*, 19.2 kb; UMC67, *BamHI* 13.4 kb, 11.0 kb and 1.6 kb; CSU92, *BamHI*, 13.3 kb and 7.5 kb; *asg62*, *BamHI*, 12.7 kb, 9.7 kb and 6.6 kb; UMC58, *HindIII*, 3.3 kb; CSU164, *EcoRI*, 9.0 kb and 7.0 kb; UMC128, *HindIII*, 6.0 kb; UMC107, *EcoRI*, 7.5.0 kb, 6.3 kb and 6.1 kb; UMC140, *EcoRI*, 4.9 kb; UMC140, *HindIII*, 6.5 kb; *adh1*, *HindIII*, 9.4 kb; *adh1*, *BamHI*, 9.4 kb; UMC161, *HindIII*, 3.3 kb; BNL8.29, *HindIII*, 9.3 kb and 8.3 kb; UMC53, *EcoRI*, 9.4 kb; UMC53, *EcoRV*, 8.4 kb, 3.8 kb and 3.0 kb; UMC6, *EcoRI*, 3.8 kb; UMC6, *HindIII* 9.4 kb; UMC6, *BamHI*, 13.2 kb, 12.7 kb, and 7.0 kb; UMC61, *HindIII*, 3.4 and 2.8 kb *agrr167*, *BamHI*, 5.7 kb, 4.5 kb and 4.0 kb; UMC34, *EcoRI*, 7.5 kb and 5.4 kb; UMC34, *HindIII*, 8.8 kb, 6.5 kb and 5.8 kb; UMC34, *BamHI*, 9.4 kb; UMC135, *HindIII*, 11.6 kb and 10.8 kb; UMC131, *EcoRI*, 10.6 kb, 5.8 kb and 4.3 kb; UMC55, *EcoRI*, 3.9 kb; UMC55, *HindIII*, 4.3 kb; UMC5, *EcoRI*, 5.4 kb; UMC5, *HindIII*, 6.5 kb; UMC49, *BamHI*, 8.2 kb; UMC36, *BamHI*,

4.2 kb; UMC32, *EcoRI*, 5.3 kb; UMC32, *HindIII* 6.7 kb, 6.0 kb, and 2.8 kb; *asg24*, *HindIII*, 7.2 kb and 6.4 kb; UMC121, *EcoRI*, 3.7 kb and 3.2 kb; BNL8.35, *HindIII*, 9.9 kb and 8.7 kb; UMC50, *BamHI*, 7.8 kb, 6.8 kb, 5.8 kb and 3.8 kb; UMC42, *HindIII*, 10.4 kb, 9.2 kb, 8.9 kb, 7.9 kb, 7.6 kb, and 3.7 kb; *npi247*, *EcoRI*, 8.0 kb; *npi247*, *HindIII* 3.0 kb; UMC10, *HindIII*, 3.0 kb; UMC10, *EcoRI*, 6.5 kb and 5.5 kb; UMC102, *EcoRI*, 2.7 kb; BNL6.06, *EcoRI*, 6.8 kb; CSU240, *EcoRI*, 10.6 kb, 4.5 kb and 3.3 kb; BNL5.37, *HindIII*, 10.3 kb, 5.8 kb and 3.5 kb; *npi296*, *EcoRI*, 7.9 kb; UMC3, *EcoRI* 2.5 kb and 2.0 kb; *npi212*, *HindIII*, 4.3 kb; *npi212*, *BamHI*, 5.4 kb; UMC39, *EcoRI*, 12.2 kb, 9.2 kb, 7.8 kb and 7.1 kb; *phi10080*, *BamHI*, 9.7 kb; UMC63, *HindIII*, 9.5 kb and 4.3 kb; CSU303, *EcoRI*, 10.0 kb; UMC96, *HindIII*, 11.8 kb, 6.4 kb and 5.5 kb; UMC96, *BamHI*, 7.5 kb; UMC2, *EcoRI*, 11.8 kb, 10.4 kb, 8.0 kb and 3.9 kb; CSU25, *HindIII*, 5.2 kb, 4.5 and 4.2 kb; *agrr115*, *EcoRI*, 8.0 kb and 5.4 kb; *agrr115*, *BamHI*, 5.4 kb and 3.5 kb; *phi20725*, *EcoRI*, 10.3 kb, 9.7 kb and 7.2 kb; *phi20725*, *HindIII*, 1.5 kb; UMC31, *EcoRI*, 5.8 kb and 2.0 kb; UMC31, *BamHI* 6.5 kb; UMC55, *EcoRI*, 3.9 kb; UMC55, *HindIII*, 4.3 kb; CSU235, *HindIII*, 6.8 kb and 3.0 kb; CSU585, *HindIII*, 8.3 kb and 6.1 kb; BNL5.46, *HindIII*, 13.7 kb, 10.5 kb, 9.7 kb and 5.1 kb; *agrr321*, *BamHI*, 5.5 kb; *agrr89*, *HindIII*, 7.1 kb; *npi386*, *HindIII*, 12.6 kb, 9.3 kb and 8.2 kb; UMC42, *HindIII*, 19.2 kb, 10.3 kb, 8.9 kb, 7.6 kb, 3.7 kb and 3.0 kb; *tda62*, *BamHI*, 5.5 kb, 5.2 kb, 4.8 kb and 4.2 kb; BNL5.71, *EcoRV*, 11.3 kb, 6.8 kb, and 5.7 kb; UMC156, *HindIII*, 3.0 kb; UMC66, *EcoRI*, 10.5 kb; UMC66, *BamHI*, 3.7 kb and 2.4 kb; UMC19, *BamHI*, 12.3 kb; UMC104, *HindIII*, 12.4 kb, 11.6 kb and 7.5 kb; UMC104, *BamHI*, 9.4 kb; UMC133, *HindIII*, 10.6 kb, 9.9 kb, 9.2 kb and 7.7 kb; UMC52, *BamHI*, 8.7 kb, 6.9 kb, 3.8 kb, 3.0 kb and 2.0 kb; BNL15.07, *HindIII*, 2.9 kb and 2.7 kb; *npi409*, *EcoRI*, 9.4 kb; *npi409*, *HindIII*, 10.4 kb, 9.0 kb and 3.9 kb; UMC147, *HindIII*, 16.3 kb, 3.8 kb and 2.4 kb; *asg73*, *EcoRI*, 3.8 kb; UMC90, *HindIII*, 7.7 kb, 6.5 kb, 2.8 kb and 1.6 kb; UMC90, *BamHI*, 9.0 kb; UMC72,

EcoRI, 8.5 kb; UMC27, *HindIII*, 8.3 kb and 4.5 kb; UMC27, *BamHI*, 6.5 kb; UMC43, *BamHI*, 9.7 kb, 7.3 kb and 5.7 kb; *tda37*, *BamHI*, 9.0 kb, 8.0 kb and 6.4 kb; UMC43, *BamHI*, 9.7 kb, 7.3 kb and 5.7 kb; UMC40, *BamHI*, 7.2 kb, 4.7 kb and 4.3 kb; BNL7.71, *HindIII*, 10.6 kb; BNL5.71, *BamHI*, 11.3 kb, 6.8 kb and 5.7 kb; *tda62*, *BamHI*, 6.5 kb and 5.5 kb; UMC68, *HindIII*, 6.0 kb; UMC104, *HindIII*, 12.4 kb, 11.6 kb and 7.5 kb; UMC104, *BamHI*, 9.4 kb; *phi10017*, *BamHI*, 15.1 kb and 9.5 kb; *tda50*, *BamHI*, 8.5 kb; *npi373*, *HindIII*, 6.5 kb, 5.6 kb, 5.1 kb and 3.0 kb; *tda204*, *BamHI*, 4.0 kb; *npi393*, *EcoRI*, 12.1 kb, 8.5 kb, 7.0 kb and 5.6 kb; UMC65, *HindIII*, 2.9 kb; UMC46, *EcoRI*, 6.5 kb and 5.6 kb; *asg7*, *HindIII*, 6.3 kb; UMC28, *HindIII*, 15.8 kb and 11.9 kb; UMC28, *BamHI*, 9.9 kb, 7.6 kb and 6.6 kb; UMC134, *HindIII*, 7.5 kb and 4.7 kb; *asg8*, *HindIII*, 10.8 kb, 8.7 kb and 8.4 kb; *phi20581*, *HindIII*, 4.2 kb; O2, *EcoRI*, 9.4 kb; *asg34*, *HindIII*, 4.5 kb; BNL15.40, *HindIII*, 5.8 kb; UMC116, *EcoRI*, 9.5 kb; UMC110, *BamHI*, 10.6 kb, 4.9 kb and 3.9 kb; BNL8.32, *HindIII*, 8.9 kb, 7.4 kb and 7.1 kb; BNL14.07, *EcoRI*, 6.4 kb; UMC80, *HindIII*, 10.7 kb, 8.2 kb and 2.4 kb; BNL16.06, *EcoRI*, 6.8 kb and 1.9 kb; BNL16.06, *HindIII*, 5.7 kb, 3.0 kb and 1.6 kb; *phi20020*, *HindIII*, 7.8 kb, 6.6 kb and 5.1 kb; *npi114*, *HindIII*, 10.0 kb, 8.8 kb and 6.3 kb; BNL9.11, *HindIII*, 3.4 kb; UMC103, *HindIII*, 6.9 kb; UMC124, *HindIII*, 8.0 and 7.0; UMC124, *BamHI*, 6.6 kb, 2.6 kb and 1.6 kb; UMC120, *HindIII*, 3.2 kb, 2.3 kb and 1.4 kb; UMC89, *EcoRI*, 7.3 kb; UMC89, *HindIII*, 7.3 kb; UMC89, *BamHI*, 9.5 kb, 6.0 kb, 5.2 kb and 4.5 kb; UMC89, *MspI*, 6.7 kb and 5.8 kb; BNL12.30, *EcoRI*, 3.5 kb; UMC48, *HindIII*, 6.2 kb, 5.3 kb, 4.7 kb, 4.2 kb and 3.5 kb; UMC53, *EcoRI*, 3.8 kb and 3.0 kb; UMC53, *EcoRV*, 8.4 kb; *npi268*, *BamHI*, 6.4 kb; UMC7, *BamHI*, 4.2 kb; UMC3, *EcoRI*, 3.5 kb and 2.0 kb; *phi10005*, *EcoRI*, 15.0 kb and 1.6 kb; UMC113, *EcoRI*, 5.9 kb and 5.4 kb; UMC113, *BamHI*, 12.8 kb, 11.8 kb and 10.5 kb; UMC192, *HindIII*, 11.4 kb and 6.4 kb; *wx* (*waxy*), *HindIII*, 21.0 kb; UMC105, *EcoRI*, 3.9 kb; CSU147, *HindIII* 5.9 kb; BNL5.10, *HindIII*, 6.1 kb

and 4.4 kb; UMC114, *Bam*HI, 12.6 kb, 11.5 kb, 10.0 kb, 8.8 kb, 7.5 kb and 6.5 kb; UMC95, *Eco*RI, 5.6 kb; UMC95, *Hind*III, 7.7 kb, 7.3 kb, 4.8 kb, 4.5 kb 4.1 kb and 1.7 kb; UMC95, *Bam*HI, 15.0 kb and 9.0 kb; asg44, *Eco*RI, 5.3 kb; CSU61, *Eco*RI, 8.1 kb and 4.8 kb; BNL7.57, *Bam*HI, 11.6 kb and 5.9 kb; CSU54, *Eco*RI, 14.7 kb and 12.6 kb; phi20075, *Eco*RI, 7.1 kb; npi285, *Eco*RI, 12.4 kb, 9.4 kb and 6.0 kb; KSU5, *Eco*RI, 9.8 kb, 7.6 kb, 6.1 kb, 3.8 kb and 3.5 kb; UMC130, *Eco*RI, 13.5 kb and 7.0 kb; UMC130, *Hind*III, 4.8 kb and 3.2 kb; UMC130, *Bam*HI, 3.2 kb; UMC64, *Hind*III, 3.3 kb; UMC152, *Hind*III, 12.4 kb, 7.1 kb and 5.6 kb; phi06005, *Eco*RI, 12.8 kb; UMC163, *Hind*III, 7.0 kb, 4.8 kb; 3.0 kb; 2.6 kb and 2.3 kb; UMC44, *Hind*III, 9.8 kb, 8.7 kb, 7.2 kb, 5.5 kb and 4.0 kb; BNL10.13, *Hind*III, 10.8 kb; npi306, *Hind*III, 7.0 kb; pmt1, *Hind*III, 2.3 kb; pmt2, *Hind*III, 2.8 kb and 2.1 kb; pmt5, *Hind*III, 12.3 kb, 8.1 kb, 3.6 kb, 3.2 kb and 2.5 kb; tda48, *Hind*III, 8.2 kb; tda53, *Hind*III, 3.8 kb and 2.2 kb; tda168, *Eco*RI, 3.6 kb; tda16, *Hind*III, 4.3 kb; and tda17, *Hind*III, 7.0 kb; tda250, *Bam*HI, 4.0 kb, recited as marker-enzyme fragment size;

(d) determining the presence of one or more of the restriction fragments.

Claims 24-43 (Cancelled).

Claim 44 (Currently amended). A ~~method for producing a maize plant~~ comprising one or more restriction fragments selected from the group consisting of BNL5.62, *Eco*RI, 10.3 kb; npi97, *Hind*III, 3.9 kb; UMC157, *Eco*RI, 6.5 kb and 3.3 kb; UMC157, *Hind*III, 5.5 kb; UMC157, *Bam*HI, 14.0 kb, 8.5 kb and 4.5 kb; UMC11, *Bam*HI, 7.0 kb; CSU3, *Bam*HI, 10.0 kb and 7.6 kb; UMC67, *Eco*RI, 19.2 kb; UMC67, *Bam*HI 13.4 kb, 11.0 kb and 1.6 kb; CSU92, *Bam*HI, 13.3 kb and 7.5 kb; asg62, *Bam*HI, 12.7 kb, 9.7 kb and 6.6 kb; UMC58,

HindIII, 3.3 kb; CSU164, EcoRI, 9.0 kb and 7.0 kb; UMC128, HindIII, 6.0 kb; UMC107, EcoRI, 7.5.0 kb, 6.3 kb and 6.1 kb; UMC140, EcoRI, 4.9 kb; UMC140, HindIII, 6.5 kb; adh1, HindIII, 9.4 kb; adh1, BamHI, 9.4 kb; UMC161, HindIII, 3.3 kb; BNL8.29, HindIII, 9.3 kb and 8.3 kb; UMC53, EcoRI, 9.4 kb; UMC53, EcoRV, 8.4 kb, 3.8 kb and 3.0 kb; UMC6, EcoRI, 3.8 kb; UMC6, HindIII 9.4 kb; UMC6, BamHI, 13.2 kb, 12.7 kb, and 7.0 kb; UMC61, HindIII, 3.4 and 2.8 kb agrr167, BamHI, 5.7 kb, 4.5 kb and 4.0 kb; UMC34, EcoRI, 7.5 kb and 5.4 kb; UMC34, HindIII, 8.8 kb, 6.5 kb and 5.8 kb; UMC34, BamHI, 9.4 kb; UMC135, HindIII, 11.6 kb and 10.8 kb; UMC131, EcoRI, 10.6 kb, 5.8 kb and 4.3 kb; UMC55, EcoRI, 3.9 kb; UMC55, HindIII, 4.3 kb; UMC5, EcoRI, 5.4 kb; UMC5, HindIII, 6.5 kb; UMC49, BamHI, 8.2 kb; UMC36, BamHI, 4.2 kb; UMC32, EcoRI, 5.3 kb; UMC32, HindIII 6.7 kb, 6.0 kb, and 2.8 kb; asg24, HindIII, 7.2 kb and 6.4 kb; UMC121, EcoRI, 3.7 kb and 3.2 kb; BNL8.35, HindIII, 9.9 kb and 8.7 kb; UMC50, BamHI, 7.8 kb, 6.8 kb, 5.8 kb and 3.8 kb; UMC42, HindIII, 10.4 kb, 9.2 kb, 8.9 kb, 7.9 kb, 7.6 kb, and 3.7 kb; np1247, EcoRI, 8.0 kb; np1247, HindIII 3.0 kb; UMC10, HindIII, 3.0 kb; UMC10, EcoRI, 6.5 kb and 5.5 kb; UMC102, EcoRI, 2.7 kb; BNL6.06, EcoRI, 6.8 kb; CSU240, EcoRI, 10.6 kb, 4.5 kb and 3.3 kb; BNL5.37, HindIII, 10.3 kb, 5.8 kb and 3.5 kb; np1296, EcoRI, 7.9 kb; UMC3, EcoRI 2.5 kb and 2.0 kb; np1212, HindIII, 4.3 kb; np1212, BamHI, 5.4 kb; UMC39, EcoRI, 12.2 kb, 9.2 kb, 7.8 kb and 7.1 kb; phi10080, BamHI, 9.7 kb; UMC63, HindIII, 9.5 kb and 4.3 kb; CSU303, EcoRI, 10.0 kb; UMC96, HindIII, 11.8 kb, 6.4 kb and 5.5 kb; UMC96, BamHI, 7.5 kb; UMC2, EcoRI, 11.8 kb, 10.4 kb, 8.0 kb and 3.9 kb; CSU25, HindIII, 5.2 kb, 4.5 and 4.2 kb; agrr115, EcoRI, 8.0 kb and 5.4 kb; agrr115, BamHI, 5.4 kb and 3.5 kb; phi20725, EcoRI, 10.3 kb, 9.7 kb and 7.2 kb; phi20725, HindIII, 1.5 kb; UMC31, EcoRI, 5.8 kb and 2.0 kb; UMC31, BamHI 6.5 kb; UMC55, EcoRI, 3.9 kb; UMC55, HindIII, 4.3 kb; CSU235, HindIII, 6.8 kb and 3.0 kb; CSU585, HindIII, 8.3 kb and 6.1 kb; BNL5.46, HindIII,

13.7 kb, 10.5 kb, 9.7 kb and 5.1 kb; agr321, BamHI, 5.5 kb; agr89, HindIII, 7.1 kb; npi386, HindIII, 12.6 kb, 9.3 kb and 8.2 kb; UMC42, HindIII, 19.2 kb, 10.3 kb 8.9 kb, 7.6 kb, 3.7 kb and 3.0 kb; tda62, BamHI, 5.5 kb, 5.2 kb, 4.8 kb and 4.2 kb; BNL5.71, EcoRV, 11.3 kb, 6.8 kb, and 5.7 kb; UMC156, HindIII, 3.0 kb; UMC66, EcoRI, 10.5 kb; UMC66, BamHI, 3.7 kb and 2.4 kb; UMC19, BamHI, 12.3 kb; UMC104, HindIII, 12.4 kb, 11.6 kb and 7.5 kb; UMC104, BamHI, 9.4 kb; UMC133, HindIII, 10.6 kb, 9.9 kb, 9.2 kb and 7.7 kb; UMC52, BamHI, 8.7 kb, 6.9 kb, 3.8 kb, 3.0 kb and 2.0 kb; BNL15.07, HindIII, 2.9 kb and 2.7 kb; npi409, EcoRI, 9.4 kb; npi409, HindIII, 10.4 kb, 9.0 kb and 3.9 kb; UMC147, HindIII, 16.3 kb, 3.8 kb and 2.4 kb; asg73, EcoRI, 3.8 kb; UMC90, HindIII, 7.7 kb, 6.5 kb, 2.8 kb and 1.6 kb; UMC90, BamHI, 9.0 kb; UMC72, EcoRI, 8.5 kb; UMC27, HindIII, 8.3 kb and 4.5 kb; UMC27, BamHI, 6.5 kb; UMC43, BamHI, 9.7 kb, 7.3 kb and 5.7 kb; tda37, BamHI, 9.0 kb, 8.0 kb and 6.4 kb; UMC43, BamHI, 9.7 kb, 7.3 kb and 5.7 kb; UMC40, BamHI, 7.2 kb, 4.7 kb and 4.3 kb; BNL7.71, HindIII, 10.6 kb; BNL5.71, BamHI, 11.3 kb, 6.8 kb and 5.7 kb; tda62, BamHI, 6.5 kb and 5.5 kb; UMC68, HindIII, 6.0 kb; UMC104, HindIII, 12.4 kb, 11.6 kb and 7.5 kb; UMC104, BamHI, 9.4 kb; phi10017, BamHI, 15.1 kb and 9.5 kb; tda50, BamHI, 8.5 kb; npi373, HindIII, 6.5 kb, 5.6 kb, 5.1 kb and 3.0 kb; tda204, BamHI, 4.0 kb; npi393, EcoRI, 12.1 kb, 8.5 kb, 7.0 kb and 5.6 kb; UMC65, HindIII, 2.9 kb; UMC46, EcoRI, 6.5 kb and 5.6 kb; asg7, HindIII, 6.3 kb; UMC28, HindIII, 15.8 kb and 11.9 kb; UMC28, BamHI, 9.9 kb, 7.6 kb and 6.6 kb; UMC134, HindIII, 7.5 kb and 4.7 kb; asg8, HindIII, 10.8 kb, 8.7 kb and 8.4 kb; phi20581, HindIII, 4.2 kb; O2, EcoRI, 9.4 kb; asg34, HindIII, 4.5 kb; BNL15.40, HindIII, 5.8 kb; UMC116, EcoRI, 9.5 kb; UMC110, BamHI, 10.6 kb, 4.9 kb and 3.9 kb; BNL8.32, HindIII, 8.9 kb, 7.4 kb and 7.1 kb; BNL14.07, EcoRI, 6.4 kb; UMC80, HindIII, 10.7 kb, 8.2 kb and 2.4 kb; BNL16.06, EcoRI, 6.8 kb and 1.9 kb; BNL16.06, HindIII, 5.7 kb, 3.0 kb and 1.6 kb; phi20020, HindIII, 7.8 kb, 6.6 kb and 5.1 kb; npi114, HindIII,

10.0 kb, 8.8 kb and 6.3 kb; BNL9.11, *Hind*III, 3.4 kb; UMC103, *Hind*III, 6.9 kb; UMC124, *Hind*III, 8.0 and 7.0; UMC124, *Bam*HI, 6.6 kb, 2.6 kb and 1.6 kb; UMC120, *Hind*III, 3.2 kb, 2.3 kb and 1.4 kb; UMC89, *Eco*RI, 7.3 kb; UMC89, *Hind*III, 7.3 kb; UMC89, *Bam*HI, 9.5 kb, 6.0 kb, 5.2 kb and 4.5 kb; UMC89, *Msp*I, 6.7 kb and 5.8 kb; BNL12.30, *Eco*RI, 3.5 kb; UMC48, *Hind*III, 6.2 kb, 5.3 kb, 4.7 kb, 4.2 kb and 3.5 kb; UMC53, *Eco*RI, 3.8 kb and 3.0 kb; UMC53, *Eco*RV, 8.4 kb; np1268, *Bam*HI, 6.4 kb; UMC7, *Bam*HI, 4.2 kb; UMC3, *Eco*RI, 3.5 kb and 2.0 kb; phi10005, *Eco*RI, 15.0 kb and 1.6 kb; UMC113, *Eco*RI, 5.9 kb and 5.4 kb; UMC113, *Bam*HI, 12.8 kb, 11.8 kb and 10.5 kb; UMC192, *Hind*III, 11.4 kb and 6.4 kb; wx (waxy), *Hind*III, 21.0 kb; UMC105, *Eco*RI, 3.9 kb; CSU147, *Hind*III 5.9 kb; BNL5.10, *Hind*III, 6.1 kb and 4.4 kb; UMC114, *Bam*HI, 12.6 kb, 11.5 kb, 10.0 kb, 8.8 kb, 7.5 kb and 6.5 kb; UMC95, *Eco*RI, 5.6 kb; UMC95, *Hind*III, 7.7 kb, 7.3 kb, 4.8 kb, 4.5 kb 4.1 kb and 1.7 kb; UMC95, *Bam*HI, 15.0 kb and 9.0 kb; asg44, *Eco*RI, 5.3 kb; CSU61, *Eco*RI, 8.1 kb and 4.8 kb; BNL7.57, *Bam*HI, 11.6 kb and 5.9 kb; CSU54, *Eco*RI, 14.7 kb and 12.6 kb; phi20075, *Eco*RI, 7.1 kb; np1285, *Eco*RI, 12.4 kb, 9.4 kb and 6.0 kb; KSU5, *Eco*RI, 9.8 kb, 7.6 kb, 6.1 kb, 3.8 kb and 3.5 kb; UMC130, *Eco*RI, 13.5 kb and 7.0 kb; UMC130, *Hind*III, 4.8 kb and 3.2 kb; UMC130, *Bam*HI, 3.2 kb; UMC64, *Hind*III, 3.3 kb; UMC152, *Hind*III, 12.4 kb, 7.1 kb and 5.6 kb; phi06005, *Eco*RI, 12.8 kb; UMC163, *Hind*III, 7.0 kb, 4.8 kb; 3.0 kb; 2.6 kb and 2.3 kb; UMC44, *Hind*III, 9.8 kb, 8.7 kb, 7.2 kb, 5.5 kb and 4.0 kb; BNL10.13, *Hind*III, 10.8 kb; np1306, *Hind*III, 7.0 kb; pmt1, *Hind*III, 2.3 kb; pmt2, *Hind*III, 2.8 kb and 2.1 kb; pmt5, *Hind*III, 12.3 kb, 8.1 kb, 3.6 kb, 3.2 kb and 2.5 kb; tda48, *Hind*III, 8.2 kb; tda53, *Hind*III, 3.8 kb and 2.2 kb; tda168, *Eco*RI, 3.6 kb; tda16, *Hind*III, 4.3 kb; and tda17, *Hind*III, 7.0 kb; tda250, *Bam*HI, 4.0 kb, recited as marker-enzyme fragment size;

wherein said maize plant is produced by:

- (a) cross pollinating a maize female plant with either a (*Tripsacum* X teosinte) male plant or a (teosinte X *Tripsacum*) male plant to produce a trigeneric hybrid maize plant;
- (b) backcrossing said trigeneric hybrid plant produced in step (a) at least once to a maize plant;
- ~~(c) screening said maize plant produced in step (b) for the presence of one or more restriction fragments according to claim 23.~~

Claim 45 (Currently amended). A ~~maize plant~~, seed, pollen, all derivatives, subsequent generations, variants, mutants, modifications, and cellular ~~and molecular~~ components produced by the ~~method~~ plant of claim 44.

Claim 46 (Currently amended). A maize plant ~~produced by the method of~~ according to claim 44 whereby the roots of said plant contain aerenchyma.

Claim 47 (Currently amended). A maize plant ~~produced by the method of~~ according to claim 44 whereby said plant is drought tolerant.

Claim 48 (Currently amended). A maize plant ~~produced by the method of~~ according to claim 44 whereby said plant is tolerant to corn rootworm.

Claim 49 (Currently amended). A maize plant ~~produced by the method of~~ according to claim 44 further comprising a novel band identified by SSR probe phi123.

Claim 50 (Currently amended). A maize plant ~~produced by the method of~~ according to claim 44 further comprising a novel band identified by SSR probe bnlg2235.

Claim 51 (Currently amended). A maize plant ~~produced by the method of~~ according to claim 44 further comprising a novel band identified by SSR probe dupSSR23.

Claim 52 (Currently amended). A maize plant ~~produced by the method of~~ according to claim 44 further comprising a novel band identified by SSR probe bnlg1805.

Claim 53 (Currently amended). A ~~method for producing a~~ maize plant comprising one or more restriction fragments selected from the group consisting of

BNL5.62, *Eco*RI, 10.3 kb; np197, *Hind*III, 3.9 kb; UMC157, *Eco*RI, 6.5 kb and 3.3 kb; UMC157, *Hind*III, 5.5 kb; UMC157, *Bam*HI, 14.0 kb, 8.5 kb and 4.5 kb; UMC11, *Bam*HI, 7.0 kb; CSU3, *Bam*HI, 10.0 kb and 7.6 kb; UMC67, *Eco*RI, 19.2 kb; UMC67, *Bam*HI 13.4 kb, 11.0 kb and 1.6 kb; CSU92, *Bam*HI, 13.3 kb and 7.5 kb; asg62, *Bam*HI, 12.7 kb, 9.7 kb and 6.6 kb; UMC58, *Hind*III, 3.3 kb; CSU164, *Eco*RI, 9.0 kb and 7.0 kb; UMC128, *Hind*III, 6.0 kb; UMC107, *Eco*RI, 7.5.0 kb, 6.3 kb and 6.1 kb; UMC140, *Eco*RI, 4.9 kb; UMC140, *Hind*III, 6.5 kb; adh1, *Hind*III, 9.4 kb; adh1, *Bam*HI, 9.4 kb; UMC161, *Hind*III, 3.3 kb; BNL8.29, *Hind*III, 9.3 kb and 8.3 kb; UMC53, *Eco*RI, 9.4 kb; UMC53, *Eco*RV, 8.4 kb, 3.8 kb and 3.0 kb; UMC6, *Eco*RI, 3.8 kb; UMC6, *Hind*III 9.4 kb; UMC6, *Bam*HI, 13.2 kb, 12.7 kb, and 7.0 kb; UMC61, *Hind*III, 3.4 and 2.8 kb *agrr167*, *Bam*HI, 5.7 kb, 4.5 kb and 4.0 kb; UMC34, *Eco*RI, 7.5 kb and 5.4 kb; UMC34, *Hind*III, 8.8 kb, 6.5 kb and 5.8 kb; UMC34, *Bam*HI, 9.4 kb; UMC135, *Hind*III, 11.6 kb and 10.8 kb; UMC131, *Eco*RI, 10.6 kb, 5.8 kb and 4.3 kb; UMC55, *Eco*RI, 3.9 kb; UMC55, *Hind*III, 4.3 kb; UMC5, *Eco*RI, 5.4 kb; UMC5, *Hind*III, 6.5 kb; UMC49, *Bam*HI, 8.2 kb; UMC36, *Bam*HI, 4.2 kb; UMC32, *Eco*RI, 5.3 kb; UMC32, *Hind*III 6.7 kb, 6.0 kb, and 2.8 kb; asg24, *Hind*III, 7.2 kb and 6.4 kb; UMC121, *Eco*RI, 3.7 kb and 3.2 kb; BNL8.35, *Hind*III, 9.9 kb and 8.7 kb; UMC50, *Bam*HI, 7.8 kb, 6.8 kb, 5.8 kb and 3.8 kb; UMC42, *Hind*III, 10.4 kb, 9.2 kb, 8.9 kb, 7.9 kb, 7.6 kb, and 3.7 kb; np1247, *Eco*RI, 8.0 kb; np1247, *Hind*III 3.0 kb; UMC10, *Hind*III, 3.0 kb; UMC10, *Eco*RI, 6.5 kb and 5.5 kb; UMC102, *Eco*RI, 2.7 kb; BNL6.06, *Eco*RI, 6.8 kb; CSU240, *Eco*RI, 10.6 kb, 4.5 kb and 3.3 kb; BNL5.37, *Hind*III, 10.3 kb, 5.8 kb and 3.5 kb; np1296, *Eco*RI, 7.9 kb; UMC3, *Eco*RI 2.5 kb and 2.0 kb; np1212, *Hind*III, 4.3 kb; np1212, *Bam*HI, 5.4 kb; UMC39, *Eco*RI, 12.2 kb, 9.2 kb, 7.8 kb and 7.1 kb; *phi10080*, *Bam*HI, 9.7 kb; UMC63,

HindIII, 9.5 kb and 4.3 kb; CSU303, EcoRI, 10.0 kb; UMC96, HindIII, 11.8 kb, 6.4 kb and 5.5 kb; UMC96, BamHI, 7.5 kb; UMC2, EcoRI, 11.8 kb, 10.4 kb, 8.0 kb and 3.9 kb; CSU25, HindIII, 5.2 kb, 4.5 and 4.2 kb; agr115, EcoRI, 8.0 kb and 5.4 kb; agr115, BamHI, 5.4 kb and 3.5 kb; phi20725, EcoRI, 10.3 kb, 9.7 kb and 7.2 kb; phi20725, HindIII, 1.5 kb; UMC31, EcoRI, 5.8 kb and 2.0 kb; UMC31, BamHI 6.5 kb; UMC55, EcoRI, 3.9 kb; UMC55, HindIII, 4.3 kb; CSU235, HindIII, 6.8 kb and 3.0 kb; CSU585, HindIII, 8.3 kb and 6.1 kb; BNL5.46, HindIII, 13.7 kb, 10.5 kb, 9.7 kb and 5.1 kb; agr321, BamHI, 5.5 kb; agr89, HindIII, 7.1 kb; npi386, HindIII, 12.6 kb, 9.3 kb and 8.2 kb; UMC42, HindIII, 19.2 kb, 10.3 kb 8.9 kb, 7.6 kb, 3.7 kb and 3.0 kb; tda62, BamHI, 5.5 kb, 5.2 kb, 4.8 kb and 4.2 kb; BNL5.71, EcoRV, 11.3 kb, 6.8 kb, and 5.7 kb; UMC156, HindIII, 3.0 kb; UMC66, EcoRI, 10.5 kb; UMC66, BamHI, 3.7 kb and 2.4 kb; UMC19, BamHI, 12.3 kb; UMC104, HindIII, 12.4 kb, 11.6 kb and 7.5 kb; UMC104, BamHI, 9.4 kb; UMC133, HindIII, 10.6 kb, 9.9 kb, 9.2 kb and 7.7 kb; UMC52, BamHI, 8.7 kb, 6.9 kb, 3.8 kb, 3.0 kb and 2.0 kb; BNL15.07, HindIII, 2.9 kb and 2.7 kb; npi409, EcoRI, 9.4 kb; npi409, HindIII, 10.4 kb, 9.0 kb and 3.9 kb; UMC147, HindIII, 16.3 kb, 3.8 kb and 2.4 kb; asg73, EcoRI, 3.8 kb; UMC90, HindIII, 7.7 kb, 6.5 kb, 2.8 kb and 1.6 kb; UMC90, BamHI, 9.0 kb; UMC72, EcoRI, 8.5 kb; UMC27, HindIII, 8.3 kb and 4.5 kb; UMC27, BamHI, 6.5 kb; UMC43, BamHI, 9.7 kb, 7.3 kb and 5.7 kb; tda37, BamHI, 9.0 kb, 8.0 kb and 6.4 kb; UMC43, BamHI, 9.7 kb, 7.3 kb and 5.7 kb; UMC40, BamHI, 7.2 kb, 4.7 kb and 4.3 kb; BNL7.71, HindIII, 10.6 kb; BNL5.71, BamHI, 11.3 kb, 6.8 kb and 5.7 kb; tda62, BamHI, 6.5 kb and 5.5 kb; UMC68, HindIII, 6.0 kb; UMC104, HindIII, 12.4 kb, 11.6 kb and 7.5 kb; UMC104, BamHI, 9.4 kb; phi10017, BamHI, 15.1 kb and 9.5 kb; tda50, BamHI, 8.5 kb; npi373, HindIII, 6.5 kb, 5.6 kb, 5.1 kb and 3.0 kb; tda204, BamHI, 4.0 kb; npi393, EcoRI, 12.1 kb, 8.5 kb, 7.0 kb and 5.6 kb; UMC65, HindIII, 2.9 kb; UMC46, EcoRI, 6.5 kb and 5.6 kb; asg7, HindIII, 6.3 kb; UMC28, HindIII, 15.8 kb and 11.9

kb; UMC28, BamHI, 9.9 kb, 7.6 kb and 6.6 kb; UMC134, HindIII, 7.5 kb and 4.7 kb; asg8,
HindIII, 10.8 kb, 8.7 kb and 8.4 kb; phi20581, HindIII, 4.2 kb; O2, EcoRI, 9.4 kb; asg34,
HindIII, 4.5 kb; BNL15.40, HindIII, 5.8 kb; UMC116, EcoRI, 9.5 kb; UMC110, BamHI, 10.6
kb, 4.9 kb and 3.9 kb; BNL8.32, HindIII, 8.9 kb, 7.4 kb and 7.1 kb; BNL14.07, EcoRI, 6.4 kb;
UMC80, HindIII, 10.7 kb, 8.2 kb and 2.4 kb; BNL16.06, EcoRI, 6.8 kb and 1.9 kb; BNL16.06,
HindIII, 5.7 kb, 3.0 kb and 1.6 kb; phi20020, HindIII, 7.8 kb, 6.6 kb and 5.1 kb; npi114, HindIII,
10.0 kb, 8.8 kb and 6.3 kb; BNL9.11, HindIII, 3.4 kb; UMC103, HindIII, 6.9 kb; UMC124,
HindIII, 8.0 and 7.0; UMC124, BamHI, 6.6 kb, 2.6 kb and 1.6 kb; UMC120, HindIII, 3.2 kb, 2.3
kb and 1.4 kb; UMC89, EcoRI, 7.3 kb; UMC89, HindIII, 7.3 kb; UMC89, BamHI, 9.5 kb, 6.0
kb, 5.2 kb and 4.5 kb; UMC89, MspI, 6.7 kb and 5.8 kb; BNL12.30, EcoRI, 3.5 kb; UMC48,
HindIII, 6.2 kb, 5.3 kb, 4.7 kb, 4.2 kb and 3.5 kb; UMC53, EcoRI, 3.8 kb and 3.0 kb; UMC53,
EcoRV, 8.4 kb; npi268, BamHI, 6.4 kb; UMC7, BamHI, 4.2 kb; UMC3, EcoRI, 3.5 kb and 2.0
kb; phi10005, EcoRI, 15.0 kb and 1.6 kb; UMC113, EcoRI, 5.9 kb and 5.4 kb; UMC113,
BamHI, 12.8 kb, 11.8 kb and 10.5 kb; UMC192, HindIII, 11.4 kb and 6.4 kb; wx (waxy),
HindIII, 21.0 kb; UMC105, EcoRI, 3.9 kb; CSU147, HindIII 5.9 kb; BNL5.10, HindIII, 6.1 kb
and 4.4 kb; UMC114, BamHI, 12.6 kb, 11.5 kb, 10.0 kb, 8.8 kb, 7.5 kb and 6.5 kb; UMC95,
EcoRI, 5.6 kb; UMC95, HindIII, 7.7 kb, 7.3 kb, 4.8 kb, 4.5 kb 4.1 kb and 1.7 kb; UMC95,
BamHI, 15.0 kb and 9.0 kb; asg44, EcoRI, 5.3 kb; CSU61, EcoRI, 8.1 kb and 4.8 kb; BNL7.57,
BamHI, 11.6 kb and 5.9 kb; CSU54, EcoRI, 14.7 kb and 12.6 kb; phi20075, EcoRI, 7.1 kb;
npi285, EcoRI, 12.4 kb, 9.4 kb and 6.0 kb; KSU5, EcoRI, 9.8 kb, 7.6 kb, 6.1 kb, 3.8 kb and 3.5
kb; UMC130, EcoRI, 13.5 kb and 7.0 kb; UMC130, HindIII, 4.8 kb and 3.2 kb; UMC130,
BamHI, 3.2 kb; UMC64, HindIII, 3.3 kb; UMC152, HindIII, 12.4 kb, 7.1 kb and 5.6 kb;
phi06005, EcoRI, 12.8 kb; UMC163, HindIII, 7.0 kb, 4.8 kb; 3.0 kb; 2.6 kb and 2.3 kb; UMC44,

HindIII, 9.8 kb, 8.7 kb, 7.2 kb, 5.5 kb and 4.0 kb; BNL10.13, HindIII, 10.8 kb; npi306, HindIII, 7.0 kb; pmt1, HindIII, 2.3 kb; pmt2, HindIII, 2.8 kb and 2.1 kb; pmt5, HindIII, 12.3 kb, 8.1 kb, 3.6 kb, 3.2 kb and 2.5 kb; tda48, HindIII, 8.2 kb; tda53, HindIII, 3.8 kb and 2.2 kb; tda168, EcoRI, 3.6 kb; tda16, HindIII, 4.3 kb; and tda17, HindIII, 7.0 kb; tda250, BamHI, 4.0 kb, recited as marker-enzyme fragment size;

wherein said maize plant is produced by:

- (a) cross pollinating either a (*Tripsacum* X teosinte) female plant or a (teosinte X *Tripsacum*) female plant with a maize male plant to produce a trigeneric hybrid plant;
- (b) backcrossing said trigeneric hybrid plant produced in step (a) at least once to a maize plant;
- ~~(c) screening said maize plant produced in step (b) for the presence of one or more restriction fragments according to claim 23.~~

Claim 54 (Currently amended). A ~~maize plant~~, seed, pollen, all derivatives, subsequent generations, variants, mutants, modifications, and cellular ~~and molecular~~ components produced by the ~~method~~ plant of claim 53.

Claim 55 (Currently amended). A maize plant ~~produced by the method of~~ according to claim 53 whereby the roots of said plant contain aerenchyma.

Claim 56 (Currently amended). A maize plant ~~produced by the method of~~ according to claim 53 whereby said plant is drought tolerant.

Claim 57 (Currently amended). A maize plant ~~produced by the method of~~ according to claim 53 whereby said plant is tolerant to corn rootworm.

Claim 58 (Currently amended). A maize plant ~~produced by the method of~~ according to claim 53 further comprising a novel band identified by SSR probe phi123.

Claim 59 (Currently amended). A maize plant ~~produced by the method of~~ according to claim 53 further comprising a novel band identified by SSR probe bnlg2235.

Claim 60 (Currently amended). A maize plant ~~produced by the method of~~ according to claim 53 further comprising a novel band identified by SSR probe dupSSR23.

Claim 61 (Currently amended). A maize plant ~~produced by the method of~~ according to claim 53 further comprising a novel band identified by SSR probe bnlg1805.

Claim 62 (Currently amended). A ~~method for producing a hybrid~~ maize plant comprising one or more restriction fragments selected from the group consisting of

BNL5.62, EcoRI, 10.3 kb; np197, HindIII, 3.9 kb; UMC157, EcoRI, 6.5 kb and 3.3 kb; UMC157, HindIII, 5.5 kb; UMC157, BamHI, 14.0 kb, 8.5 kb and 4.5 kb; UMC11, BamHI, 7.0 kb; CSU3, BamHI, 10.0 kb and 7.6 kb; UMC67, EcoRI, 19.2 kb; UMC67, BamHI 13.4 kb, 11.0 kb and 1.6 kb; CSU92, BamHI, 13.3 kb and 7.5 kb; asg62, BamHI, 12.7 kb, 9.7 kb and 6.6 kb; UMC58, HindIII, 3.3 kb; CSU164, EcoRI, 9.0 kb and 7.0 kb; UMC128, HindIII, 6.0 kb; UMC107, EcoRI, 7.5.0 kb, 6.3 kb and 6.1 kb; UMC140, EcoRI, 4.9 kb; UMC140, HindIII, 6.5 kb; adh1, HindIII, 9.4 kb; adh1, BamHI, 9.4 kb; UMC161, HindIII, 3.3 kb; BNL8.29, HindIII, 9.3 kb and 8.3 kb; UMC53, EcoRI, 9.4 kb; UMC53, EcoRV, 8.4 kb, 3.8 kb and 3.0 kb; UMC6, EcoRI, 3.8 kb; UMC6, HindIII 9.4 kb; UMC6, BamHI, 13.2 kb, 12.7 kb, and 7.0 kb; UMC61, HindIII, 3.4 and 2.8 kb agr167, BamHI, 5.7 kb, 4.5 kb and 4.0 kb; UMC34, EcoRI, 7.5 kb and 5.4 kb; UMC34, HindIII, 8.8 kb, 6.5 kb and 5.8 kb; UMC34, BamHI, 9.4 kb; UMC135, HindIII, 11.6 kb and 10.8 kb; UMC131, EcoRI, 10.6 kb, 5.8 kb and 4.3 kb; UMC55, EcoRI, 3.9 kb; UMC55, HindIII, 4.3 kb; UMC5, EcoRI, 5.4 kb; UMC5, HindIII, 6.5 kb; UMC49, BamHI, 8.2 kb; UMC36, BamHI, 4.2 kb; UMC32, EcoRI, 5.3 kb; UMC32, HindIII 6.7 kb, 6.0 kb, and 2.8 kb; asg24, HindIII, 7.2 kb and 6.4 kb; UMC121, EcoRI, 3.7 kb and 3.2 kb; BNL8.35, HindIII, 9.9 kb and 8.7 kb;

UMC50, BamHI, 7.8 kb, 6.8 kb, 5.8 kb and 3.8 kb; UMC42, HindIII, 10.4 kb, 9.2 kb, 8.9 kb, 7.9 kb, 7.6 kb, and 3.7 kb; np1247, EcoRI, 8.0 kb; np1247, HindIII 3.0 kb; UMC10, HindIII, 3.0 kb; UMC10, EcoRI, 6.5 kb and 5.5 kb; UMC102, EcoRI, 2.7 kb; BNL6.06, EcoRI, 6.8 kb; CSU240, EcoRI, 10.6 kb, 4.5 kb and 3.3 kb; BNL5.37, HindIII, 10.3 kb, 5.8 kb and 3.5 kb; np1296, EcoRI, 7.9 kb; UMC3, EcoRI 2.5 kb and 2.0 kb; np1212, HindIII, 4.3 kb; np1212, BamHI, 5.4 kb; UMC39, EcoRI, 12.2 kb, 9.2 kb, 7.8 kb and 7.1 kb; phi10080, BamHI, 9.7 kb; UMC63, HindIII, 9.5 kb and 4.3 kb; CSU303, EcoRI, 10.0 kb; UMC96, HindIII, 11.8 kb, 6.4 kb and 5.5 kb; UMC96, BamHI, 7.5 kb; UMC2, EcoRI, 11.8 kb, 10.4 kb, 8.0 kb and 3.9 kb; CSU25, HindIII, 5.2 kb, 4.5 and 4.2 kb; agr115, EcoRI, 8.0 kb and 5.4 kb; agr115, BamHI, 5.4 kb and 3.5 kb; phi20725, EcoRI, 10.3 kb, 9.7 kb and 7.2 kb; phi20725, HindIII, 1.5 kb; UMC31, EcoRI, 5.8 kb and 2.0 kb; UMC31, BamHI 6.5 kb; UMC55, EcoRI, 3.9 kb; UMC55, HindIII, 4.3 kb; CSU235, HindIII, 6.8 kb and 3.0 kb; CSU585, HindIII, 8.3 kb and 6.1 kb; BNL5.46, HindIII, 13.7 kb, 10.5 kb, 9.7 kb and 5.1 kb; agr321, BamHI, 5.5 kb; agr89, HindIII, 7.1 kb; np1386, HindIII, 12.6 kb, 9.3 kb and 8.2 kb; UMC42, HindIII, 19.2 kb, 10.3 kb 8.9 kb, 7.6 kb, 3.7 kb and 3.0 kb; tda62, BamHI, 5.5 kb, 5.2 kb, 4.8 kb and 4.2 kb; BNL5.71, EcoRV, 11.3 kb, 6.8 kb, and 5.7 kb; UMC156, HindIII, 3.0 kb; UMC66, EcoRI, 10.5 kb; UMC66, BamHI, 3.7 kb and 2.4 kb; UMC19, BamHI, 12.3 kb; UMC104, HindIII, 12.4 kb, 11.6 kb and 7.5 kb; UMC104, BamHI, 9.4 kb; UMC133, HindIII, 10.6 kb, 9.9 kb, 9.2 kb and 7.7 kb; UMC52, BamHI, 8.7 kb, 6.9 kb, 3.8 kb, 3.0 kb and 2.0 kb; BNL15.07, HindIII, 2.9 kb and 2.7 kb; np1409, EcoRI, 9.4 kb; np1409, HindIII, 10.4 kb, 9.0 kb and 3.9 kb; UMC147, HindIII, 16.3 kb, 3.8 kb and 2.4 kb; asg73, EcoRI, 3.8 kb; UMC90, HindIII, 7.7 kb, 6.5 kb, 2.8 kb and 1.6 kb; UMC90, BamHI, 9.0 kb; UMC72, EcoRI, 8.5 kb; UMC27, HindIII, 8.3 kb and 4.5 kb; UMC27, BamHI, 6.5 kb; UMC43, BamHI, 9.7 kb, 7.3 kb and 5.7 kb; tda37, BamHI, 9.0 kb, 8.0 kb and 6.4 kb; UMC43, BamHI, 9.7 kb, 7.3

kb and 5.7 kb; UMC40, BamHI, 7.2 kb, 4.7 kb and 4.3 kb; BNL7.71, HindIII, 10.6 kb; BNL5.71, BamHI, 11.3 kb, 6.8 kb and 5.7 kb; tda62, BamHI, 6.5 kb and 5.5 kb; UMC68, HindIII, 6.0 kb; UMC104, HindIII, 12.4 kb, 11.6 kb and 7.5 kb; UMC104, BamHI, 9.4 kb; phi10017, BamHI, 15.1 kb and 9.5 kb; tda50, BamHI, 8.5 kb; np1373, HindIII, 6.5 kb, 5.6 kb, 5.1 kb and 3.0 kb; tda204, BamHI, 4.0 kb; np1393, EcoRI, 12.1 kb, 8.5 kb, 7.0 kb and 5.6 kb; UMC65, HindIII, 2.9 kb; UMC46, EcoRI, 6.5 kb and 5.6 kb; asg7, HindIII, 6.3 kb; UMC28, HindIII, 15.8 kb and 11.9 kb; UMC28, BamHI, 9.9 kb, 7.6 kb and 6.6 kb; UMC134, HindIII, 7.5 kb and 4.7 kb; asg8, HindIII, 10.8 kb, 8.7 kb and 8.4 kb; phi20581, HindIII, 4.2 kb; O2, EcoRI, 9.4 kb; asg34, HindIII, 4.5 kb; BNL15.40, HindIII, 5.8 kb; UMC116, EcoRI, 9.5 kb; UMC110, BamHI, 10.6 kb, 4.9 kb and 3.9 kb; BNL8.32, HindIII, 8.9 kb, 7.4 kb and 7.1 kb; BNL14.07, EcoRI, 6.4 kb; UMC80, HindIII, 10.7 kb, 8.2 kb and 2.4 kb; BNL16.06, EcoRI, 6.8 kb and 1.9 kb; BNL16.06, HindIII, 5.7 kb, 3.0 kb and 1.6 kb; phi20020, HindIII, 7.8 kb, 6.6 kb and 5.1 kb; np114, HindIII, 10.0 kb, 8.8 kb and 6.3 kb; BNL9.11, HindIII, 3.4 kb; UMC103, HindIII, 6.9 kb; UMC124, HindIII, 8.0 and 7.0; UMC124, BamHI, 6.6 kb, 2.6 kb and 1.6 kb; UMC120, HindIII, 3.2 kb, 2.3 kb and 1.4 kb; UMC89, EcoRI, 7.3 kb; UMC89, HindIII, 7.3 kb; UMC89, BamHI, 9.5 kb, 6.0 kb, 5.2 kb and 4.5 kb; UMC89, MspI, 6.7 kb and 5.8 kb; BNL12.30, EcoRI, 3.5 kb; UMC48, HindIII, 6.2 kb, 5.3 kb, 4.7 kb, 4.2 kb and 3.5 kb; UMC53, EcoRI, 3.8 kb and 3.0 kb; UMC53, EcoRV, 8.4 kb; np1268, BamHI, 6.4 kb; UMC7, BamHI, 4.2 kb; UMC3, EcoRI, 3.5 kb and 2.0 kb; phi10005, EcoRI, 15.0 kb and 1.6 kb; UMC113, EcoRI, 5.9 kb and 5.4 kb; UMC113, BamHI, 12.8 kb, 11.8 kb and 10.5 kb; UMC192, HindIII, 11.4 kb and 6.4 kb; wx (waxy), HindIII, 21.0 kb; UMC105, EcoRI, 3.9 kb; CSU147, HindIII 5.9 kb; BNL5.10, HindIII, 6.1 kb and 4.4 kb; UMC114, BamHI, 12.6 kb, 11.5 kb, 10.0 kb, 8.8 kb, 7.5 kb and 6.5 kb; UMC95, EcoRI, 5.6 kb; UMC95, HindIII, 7.7 kb, 7.3 kb, 4.8 kb, 4.5 kb 4.1 kb and 1.7 kb; UMC95,

BamHI, 15.0 kb and 9.0 kb; asg44, EcoRI, 5.3 kb; CSU61, EcoRI, 8.1 kb and 4.8 kb; BNL7.57, BamHI, 11.6 kb and 5.9 kb; CSU54, EcoRI, 14.7 kb and 12.6 kb; phi20075, EcoRI, 7.1 kb; np1285, EcoRI, 12.4 kb, 9.4 kb and 6.0 kb; KSU5, EcoRI, 9.8 kb, 7.6 kb, 6.1 kb, 3.8 kb and 3.5 kb; UMC130, EcoRI, 13.5 kb and 7.0 kb; UMC130, HindIII, 4.8 kb and 3.2 kb; UMC130, BamHI, 3.2 kb; UMC64, HindIII, 3.3 kb; UMC152, HindIII, 12.4 kb, 7.1 kb and 5.6 kb; phi06005, EcoRI, 12.8 kb; UMC163, HindIII, 7.0 kb, 4.8 kb; 3.0 kb; 2.6 kb and 2.3 kb; UMC44, HindIII, 9.8 kb, 8.7 kb, 7.2 kb, 5.5 kb and 4.0 kb; BNL10.13, HindIII, 10.8 kb; np1306, HindIII, 7.0 kb; pmt1, HindIII, 2.3 kb; pmt2, HindIII, 2.8 kb and 2.1 kb; pmt5, HindIII, 12.3 kb, 8.1 kb, 3.6 kb, 3.2 kb and 2.5 kb; tda48, HindIII, 8.2 kb; tda53, HindIII, 3.8 kb and 2.2 kb; tda168, EcoRI, 3.6 kb; tda16, HindIII, 4.3 kb; and tda17, HindIII, 7.0 kb; tda250, BamHI, 4.0 kb, recited as marker-enzyme fragment size;

wherein said plant is produced by:

- (a) cross pollinating a maize female plant with either a (*Tripsacum* X teosinte) male plant or a (teosinte X *Tripsacum*) male plant to produce a hybrid maize plant;
- (b) backcrossing said hybrid maize plant produced in step (a) at least once to a (*Tripsacum* X teosinte) plant or a (teosinte X *Tripsacum*) plant;
- ~~(c) screening said maize plant produced in step (b) for the presence of one or more restriction fragments according to claim 23.~~

Claim 63 (Currently amended). A ~~maize plant~~, seed, pollen, all derivatives, subsequent generations, variants, mutants, modifications, and cellular and molecular components produced by the ~~method~~ plant of claim 62.

Claim 64 (Currently amended). A maize plant ~~produced by the method of claim 62~~ whereby the roots of said plant contain aerenchyma.

Claim 65 (Currently amended). A maize plant ~~produced by the method of~~ according to claim 62 whereby said plant is drought tolerant.

Claim 66 (Currently amended). A maize plant ~~produced by the method of~~ according to claim 62 whereby said plant is tolerant to corn rootworm.

Claim 67 (Currently amended). A maize plant ~~produced by the method of~~ according to claim 62 further comprising a novel band identified by SSR probe phi123.

Claim 68 (Currently amended). A maize plant ~~produced by the method of~~ according to claim 62 further comprising a novel band identified by SSR probe bnlg2235.

Claim 69 (Currently amended). A maize plant ~~produced by the method of~~ according to claim 62 further comprising a novel band identified by SSR probe dupSSR23.

Claim 70 (Currently amended). A maize plant ~~produced by the method of~~ according to claim 62 further comprising a novel band identified by SSR probe bnlg1805.

Claims 71-79 (Cancelled).